



MassiCore® Marine 90 ANC-MB90

SPEC & DATA SHEET

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MassiCore® Marine 90 (ANC-MB90) is a high-performance foil-faced mass-loaded vinyl noise barrier designed for superior sound transmission loss and marine-grade fire resistance. Engineered by All Noise Control, it meets strict IMO fire safety standards, including low flame spread, controlled heat release, and low smoke toxicity—making it ideal for marine vessels, engine rooms, and transportation environments.

This thin, dense acoustic barrier effectively blocks and absorbs noise, reducing transmission through walls, ceilings, and floors from generators, mechanical equipment, and HVAC systems. It also helps minimize coincidence dip resonance in lightweight structures like drywall and plywood, improving overall acoustic performance. Durable, flexible, and tear-resistant, MassiCore® Marine 90 delivers reliable marine noise control without compromising installation efficiency.

Applications:

- Applied in marine engine rooms & deckheads to reduce noise transmission
- Rail carriages for underfloor insulation to reduce track and brake noise
- Inside cavities or over lightweight wall, ceiling and floor constructions
- Around the outside of metal air ducts to reduce noise breakout
- Wrapped around noise emitting pipes, i.e. fluid or gas pulsation in chemical, petrochemical, LNG and wastewater treatment plants

Features:

- Contains no ozone depleting substances
- Free from lead, unrefined odour-producing oils and bitumen
- Complies to IMO FTP 2010 - low spread of flame
- Multiple methods of installation accepted by USA Coast Guard (USCG)
- Complies to BS 476 Part 6 and 7 - Class 0
- Easy to cut, tape and mechanically fasten into position
- Self-extinguishes upon removal of the flame
- Resistant to water, oil and natural weather conditions
- Tear resistant with high tensile strength - ability to be suspended at lengths of up to 16.5 ft

Specifications:

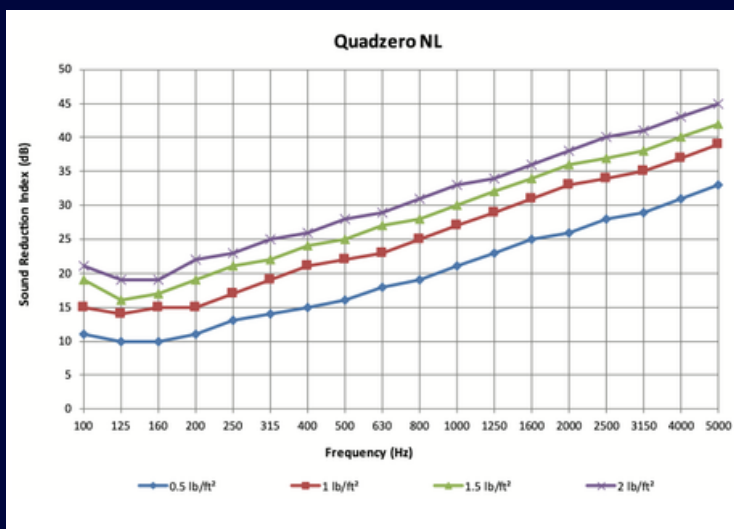
Category	Specification
Colour	Silver (Aluminium facing)White backing
Available	Standard roll size:4.4 x 15 to 30 ftBarrier weight:0.5 lb/ft ² , 1 lb/ft ² , 1.5 lb/ft ² , 2 lb/ft ² Custom sizes available depending on MOQ

Product Specifications

Barrier Weight	Thickness	Standard Roll Size	Standard Roll Weight	Ceiling Sound Transmission Test (ASTM E413 / CSTC)	Operating Temperature Range
0.5 lb/ft ²	0.05 in (1.2 mm)	4.4 ft x 30 ft (1.34 x 9.1 m)	66 lb (30 kg)	44 (Report No. A-22104-0228)	Continuous: -40 to 212 °F (-40 to 100 °C)Intermittent: -40 to 248 °F (-40 to 120 °C)
1 lb/ft ²	0.1 in (2.5 mm)	4.4 ft x 30 ft (1.34 x 9.1 m)	132 lb (60 kg)	48 (Report No. -22107-0228)	Continuous: -40 to 212 °F (-40 to 100 °C)Intermittent: -40 to 248 °F (-40 to 120 °C)
1.5 lb/ft ²	0.15 in (3.7 mm)	4.4 ft x 20 ft (1.34 x 6.1 m)	132 lb (60 kg)	50 (Report No. 22114-0228)*	Continuous: -40 to 212 °F (-40 to 100 °C)Intermittent: -40 to 248 °F (-40 to 120 °C)
2 lb/ft ²	0.19 in (4.9 mm)	4.4 ft x 15 ft (1.34 x 4.6 m)	132 lb (60 kg)	-	Continuous: -40 to 212 °F (-40 to 100 °C)Intermittent: -40 to 248 °F (-40 to 120 °C)

Acoustic Performance

Frequency (Hz)	0.5 lb/ft ²	1 lb/ft ²	1.5 lb/ft ²	2 lb/ft ²
100	11	15	19	21
125	10	14	16	19
160	10	15	17	19
200	11	15	19	22
250	13	17	21	23
315	14	19	22	25
400	15	21	24	26
500	16	22	25	28
630	18	23	27	29
800	19	25	28	31
1000	21	27	30	33
1250	23	29	32	34
1600	25	31	34	36
2000	26	33	36	38
2500	28	34	37	40
3150	29	35	38	41
4000	31	37	40	43
5000	33	39	42	45
STC	21	26	30	32



Tested to ASTM E90 at Riverbank Acoustical Laboratories, USA